FORM-PTO-1390 (Rev. 10-96) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

000500-252

		CONCERNING A FILI	U.S. APPLICATION NO. (If known, see 37 C.F R. 1.5) Unassign Q 9 / 5 2 9 6 3 8					
INTERNATIONAL APPLICATION NO. PCT/SE98/01861			INTERNATIONAL FILING DATE 16 October 1998	PRIORITY DATE CLAIMED 24 October 1997				
	TITLE OF INVENTION A WAIST BELT FOR ABSORBENT GARMENTS							
APPL	APPLICANT(S) FOR DO/EO/US Olle CARLBARK, Kenneth STRANNEMALM; and Ewa KÖLBY FALK							
Appli	Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:							
	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.							
2.		This is a SECOND or SUBSEQUE	J.S.C. 371.					
١.	Image: section of the sec	This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and the PCT Articles 22 and 39(1).						
4.	M	A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.						
	X	_	cation as filed (35 U.S.C. 371(c)(2))					
		a. X is transmitted herewith (required only if not transmitted by the International Bureau).						
		b. X has been transmitted by the International Bureau.						
	_	c. Lis not required, as the application was filed in the United States Receiving Office (RO/US)						
≟6 l	Ш	A translation of the International	Application into English (35 U.S.C. 371(c)(2)).					
	X	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a.						
		c. \square have not been made; however, the time limit for making such amendments has NOT expired. d. \square have not been made and will not be made.						
8.		A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. [An oath or declaration of the inve	ntor(s) (35 U.S.C. 371(c)(4}).					
10. [A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).						
Items 11. to 16. below concern other document(s) or information included:								
11. [An Information Disclosure Statem	ent under 37 C.F.R. § 1.97 and 1.98.					
12. [An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. § 3.28 and 3.31 is included.						
13. [Х	A FIRST preliminary amendment.						
14. [A SECOND or SUBSEQUENT preliminary amendment. A substitute specification.						
15. E		A change of power of attorney an	d/or address letter.					
16.	X	Other items or information:						
11	INTERNATIONAL SEARCH REPORT and INTERNATIONAL PRELIMINARY EXAMINATION REPORT.							

REGISTRATION NUMBER

April 17, 2000

09/529638 422 Rec'd PCT/PTO 17 APR 2000

Patent Attorney's Docket No. <u>000500-252</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to examination of the above-identified patent application please amend the application as follows:

IN THE CLAIMS:

The following amendments relate to the claims filed in the International Application on October 30, 1999.

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Please amend claims 1-8 as follows:
Claim 1, line 1, delete "(1) and "(2)";
    line 2, delete "(3)" and "(L)";
    line 3, delete "(T)";
    line 4, delete "(1)" and "(3)";
    line 5, delete "(7, 8)";
    line 6, delete "(L)";
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line 8, delete "(1)" and "(3)";

line 7, delete "(2)";

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line 9, delete "(T)" and "(3)"; and
line 11, delete "(L)".
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Claim 2, line 2, delete "(3)" and "(T)";
line 3, delete "(9, 10, 11, 12, 13, 14, 15)".

Claim 3, line 2, delete "(3)".

Claim 4, line 2, delete "(M)" and "(3)"; line 3, delete "(7, 8)".

Claim 5, line 1, change "any one of the preceding claims" to --claim 1--;

line 2, delete "(7, 8)";
line 3, delete "(3)";
line 5, delete "(7, 8)".

Claim 6, line 1, change "any one of the preceding claims" to --claim 1--;

line 2, delete "(3)".

Claim 7, line 2, delete "(3)".

Claim 8, line 2, delete "(3)".

REMARKS

In the event that there are any questions concerning this amendment, or the application in general, the Examiner is respectfully urged to telephone the undersigned attorney so that prosecution of the application may be expedited.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

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Date: April 17, 2000

A WAIST BELT FOR ABSORBENT GARMENTS 09/529638

FIELD OF INVENTION

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The present invention relates to a garment that comprises an absorbent part and a waist belt which is attached directly or indirectly to the garment, wherein the belt has two belt portions that extend in respective opposite directions from said absorbent part and which can be fastened together around the wearer of said garment.

BACKGROUND OF THE INVENTION

Absorbent garments of the aforesaid kind are well known in this field. The garment in question has a belt attached to the absorbent part of the garment and, subsequent to fastening the belt around the wearer's waist with the attached end of the garment located at the rear of the wearer, requires that end of the garment which is not fastened to the belt to be brought between the wearer's thighs and detachably fastened to the front side of the belt with the aid of some type of fastener means. Such releasable fastener means may have the form of hooks and loops (such as touch-and-close fasteners), e.g. fasteners retailed under the designation "VELCRO". An example of one such garment is described in WO-Al-94/26224.

It is also well known within this particular field to use loose belts to which an absorbent unit is fastened, therewith enabling one and the same belt to be used over a longer period of time and together with a number of changes of absorbent units. A loose belt of this kind is intended for use with an absorbent unit illustrated and described in WO-A1-94/26225.

35 TECHNICAL PROBLEMS

One well known problem with belted garments of the aforesaid

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kind exists in the handling of those parts of the belt that protrude out from each side of the absorbent part of the combined garment, so as to enable the belt-portions to be gripped quickly and correctly and then fastened together. With respect in particular to incontinence problems, it will be understood that persons suffering from incontinence are often old and physically handicapped in some way or another. Consequently, there is need of a solution which will enable the absorbent garment to be correctly positioned on the wearer in a simple fashion.

A solution to this problem is taught by WO-A1-94/26222, according to which the belt is given a degree of stiffness such as to prevent excessive wrinkling of the belt and therewith facilitate handling of said belt.

Another aspect of the use of a stiff or rigid belt is described in UK Patent Specification GB-A-2,216,774, where a portion of the waist part, which can be interpreted as a belt-portion, comprises a stiffening element. It is said that this stiffening element functions to reduce wrinkling in this region, therewith reducing the risk of leakage.

US-A-3 587 580 discloses a garment comprising an absorbent part and a waist belt which has a longitudinal direction and a cross-direction and which is attached directly or indirectly to said garment, wherein said belt includes two belt portions which extend generally in said longitudinal direction in respective directions from said absorbent part and which are intended to be fastened together around a wearer of the garment, wherein the belt has a stiffness that varies in the cross-direction of the belt.

It is thus desirable from several aspects to use a belt which has a relatively high stiffness. Unfortunately, however, a very stiff belt is liable to cause discomfort to the wearer in use, for instance is liable to cut into and chafe the

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wearer's skin. In addition, a stiff belt has relatively little pliability and will not therefore adapt readily to the shape of the wearer's body. This problem is particularly significant in the case of broad belts, which are consequently often felt particularly uncomfortable to wear.

There is thus also a need of a solution which will allow the use of a relatively stiff, or rigid, belt, that is comfortable to wear and that will not increase the danger of the belt cutting into and chafing the wearer's skin.

SUMMARY OF THE INVENTION

The aforesaid problems are avoided essentially completely with the present invention. Thus, an object of the present invention is to provide a belt with which the risk of chafing the wearer's skin and causing other forms of skin irritation is markedly reduced. An inventive belt is primarily characterised in that it has a stiffness which varies in the cross-direction of the belt.

By configuring the belt with a stiffness which is greater in a longitudinally extending central part of the belt than in at least one longitudinally extending edge-part of said belt, there is provided a belt whose stiffness is sufficient to avoid the aforesaid handling and leakage problems while, at the same time, providing a soft belt edge which is comfortable to the user. Because the edge of the belt has a low degree of stiffness, it can be adapted to the shape of the wearer's body without impairing wearer comfort.

A belt comprising an essentially homogenous material is given the desired properties, for instance, by making the cross-sectional area smaller at the edge-parts of the belt than at the central part thereof. A belt of this design is particularly beneficial when the cross-sectional area decreases continuously from the longitudinally extending centre line of the belt towards the longitudinal edges of said belt.

ART 34 AMDT

Other preferred characteristic features of the invention and further embodiments thereof will be apparent from the following dependent claims.

5 BRIEF DESCRIPTION OF THE DRAWINGS

The present invention will now be described in more detail with reference to the accompanying drawings, in which

- Fig. 1 illustrates a garment which comprises a belt constructed in accordance with the invention;
- Fig. 2 is a cross-sectional view of the belt shown in Fig. 1;
- Fig. 3 illustrates another embodiment of an inventive belt;
- Fig. 4 is a cross-sectional view of the belt shown in Fig. 3; and
- Fig. 5 illustrates a third embodiment of an inventive belt.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Fig. 1 shows a garment generally referenced 1. The garment comprises an absorbent part 2 and a belt-portion, generally referenced 3. The belt may be a full belt 3 which is fastened to the absorbent part at its one end 4 (or 5). Alternatively, the belt 3 may comprise two mutually separate parts disposed on respective sides of the absorbent part 2 at one end 4 of said absorbent part. The illustrated belt has a longitudinal direction L and a cross-direction T. The manner in which the belt is fastened is not significant to the present field of use. Thus, the belt 3 may be fastened permanently to the absorbent part 2, i.e. glued, welded, sewn thereto or fastened thereto in some other way. Releasable fastener

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devices may also be used, such as buttons, press-studs, clips, touch-and-close fasteners, or corresponding means.

If it is desired to incorporate suppleness and resilience in a belt that includes two mutually separate parts, it is conceivable for one end 4 (or 5) of the absorbent part of the garment to be made elastic.

The general appearance of the illustrated garment is known to the art and consequently not all of the component parts of said garment will be described in detail in this document. The belt 3 comprises a first belt-portion 7 that projects out from one first side-edge 41 of the absorbent part 2, and a second belt-portion 8 that projects out from the opposing side-edge 42 of said absorbent part. A fastener device 6 in the form of a surface that presents hooked elements and forming part of a touch-and-close fastener means is provided on one end portion of the first belt-portion 7. The fastener device 6 may either be fastened to the other belt-portion 8 (on the side thereof not shown in Fig. 1) or to a receiving area that includes loop-elements and arranged on the second belt-portion 8. The fastener device 6 may alternatively consist of an adhesive material which is either fastened to the second belt-portion 8 (on the side thereof not shown in Fig. 1) or to a specially designed receiving surface against which the adhesive fastener device 6 can be fastened and released repeatedly.

As is made apparent hereinafter, further advantages are afforded by special dimensions and designs of the belt 3. Although the belt is preferably generally oblong in shape, it may, of course, have other elongated shapes. However, when the belt has an oblong shape its width will preferably lie between 70 mm and 160 mm so as to enable the belt to be used by adults that are incontinent.



ART 34 ANDL

When using an inventive belt, the belt-portions 7 and 8 can be given good handling properties by choosing a belt material that is sufficiently stiff to avoid wrinkling problems while, nevertheless, avoiding problems associated with reduced wearer comfort, such as chafing of and biting into the wearer's skin.

A nonwoven material is preferably used for either one side or both sides of the belt, said nonwoven material preferably being of the kind to which hooked elements on the fastener device 6 can be releasably fastened. The use of nonwoven material as a receiving surface to which the fastener device 6 can be releasably fastened enables particularly beneficial combinations of peeling forces and shear strengths to be obtained. The use of nonwoven material is also beneficial by virtue of the fact that it is less expensive than woven material and thus more appropriate for use with disposable garments.

Since wearer comfort is a particularly important factor to which attention must be paid within this field, and then particularly with regard to belt stiffness, it has been found advantageous to construct the belt in accordance with the present invention. As before mentioned, the belt will beneficially have a certain degree of stiffness, particularly in its longitudinal direction L. At the same time, the risk of the belt edges cutting into the wearer's skin or chafing the wearer's skin is greater in the case of a stiff belt than in the case of a belt which is softer and more pliable. With the intention of addressing this risk, the inventive belt is constructed so that its stiffness will vary in the crossdirection T of the belt, thereby enabling the belt to conform to the shape of the wearer's body in use much more readily than might otherwise be the case.



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Fig. 2 is a cross-sectional view of the belt 3 shown in Fig. 1. As will be apparent, the belt, which has a generally homogenous construction, comprises a central part 18 that is of predetermined stiffness. Because the belt has been constructed so that the cross-sectional area of said belt decreases in a direction towards the edge-parts 16 and 17 thereof, the stiffness of the belt will also decrease continuously in said edge-parts 16, 17. These parts 16 and 17 can thus conform to the wearer in use, for instance bulge out when necessary, therewith reducing the risk of chafing and of the belt cutting into the wearer's skin and also reducing the risk of impaired user comfort.

- illustrates another embodiment of the present Fia. invention in which the belt 3 comprises in its crossdirection T a plurality of mutually adjacent regions 9, 10, 11, 12, 13, 14 and 15 of mutually different stiffness, the extensions of these regions in the longitudinal direction L coinciding essentially with the length of the belt 3. These regions are preferably disposed so that the central part of the belt will be stiffer than the edge-parts of said belt. It is also conceivable for the belt to be constructed so that only one edge-part will have this greater pliability, preferably that edge-part which lies uppermost in Neither is it necessary for the regions 9, 10, 11, 12, 13, 14 and 15 to extend through the full thickness of the belt. For instance, these regions may be disposed on a layer 20 that is preferably placed proximal to the wearer's body in use.
- Fig. 4 is a cross-sectional view of the belt 3 shown in Fig. 3 provided with a layer 20 which by virtue of its holding effect on said regions 9-15 facilitates manufacture of the belt, in addition to enhancing wearer comfort.
- Fig. 5 illustrates a third embodiment of a continuous belt constructed in accordance with the present invention. The



belt 3 of the Fig. 5 embodiment includes a plurality of mutually adjacent regions 29, 30, 31, 32, 33, 34, 35 of mutually different stiffness in the cross-direction T of the belt, said regions being disposed on a first and a second belt-portion 7, 8. A part M of the belt 3 located centrally between the two stiffened belt-portions 7, 8 as seen in the longitudinal direction of the belt 3 includes no stiffening material and thus has one and the same degree of stiffness throughout the whole of its area. Thus, those portions 7, 8 of the belt that include regions of mutually different stiffness have an extension in the longitudinal direction L which is shorter than the length of the belt 3. In this case, said regions are placed so as to essentially coincide with the wearer's need for soft edge-parts on the belt 3.

In certain applications, it may be sufficient for the belt to longitudinally extending regions of mutually different stiffness. Furthermore, it may be appropriate to leave a piece of each end of the belt free from stiffening material, for instance when the belt is fastened together with the aid of a button/buttonhole fastener. This would facilitate buttoning of the belt. It is therefore not necessary for the belt to have regions of different stiffness along the whole of its length.

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One method of achieving the desired difference in stiffness between different parts of the belt in its cross-direction is to treat the edge-parts of the belt in a manner to change the internal structure of the material. According to embodiment of the invention (not shown), the edge-parts of the belt are softened by heat-treating said parts. According to another embodiment (also not shown) edge-parts of the belt are softened by exposing said edges to radiation, whereas said softening effect is achieved in accordance with another embodiment (not shown) by mechanically working said edgeparts.



Naturally, combinations of the aforesaid methods can be used to produce the desired material properties within the scope of the invention.

The invention shall not therefore be considered limited to the aforedescribed exemplifying embodiments thereof, since other embodiments are conceivable within the scope of the following Claims.

CLAIMS

1. A garment (1) comprising an absorbent part (2) and a waist belt (3) which has a longitudinal direction (L) and a crossdirection (T) and which is attached directly or indirectly to said garment (1), wherein said belt (3) includes two beltportions (7, 8) which extend generally in said longitudinal direction (L) in respective directions from said absorbent part (2) and which are intended to be fastened together around a wearer of the garment (1), which belt (3) has a stiffness that cross-direction (T) of the belt varies in the (3),characterised in that the stiffness that varies extension in the longitudinal direction (L) that essentially coincides with the length of the belt.

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2. A garment according to claim 1, characterised in that the belt (3) comprises in its cross-direction (T) at least two mutually adjacent regions (9, 10, 11, 12, 13, 14, 15) of mutually different stiffness.

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3. A garment according to claim 2, characterised in that the belt (3) has a longitudinally extending central part that is stiffer than at least one longitudinally extending edge-part of said belt.

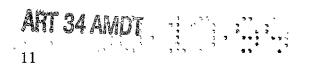
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4. A garment according to claim 1, characterised in that a part (M) of the belt (3) being located centrally between the two stiffened belt-portions (7, 8) have one and the same degree of stiffness throughout the whole of its area.

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5. A garment according to any one of the preceding claims, characterised in that the two belt-portions (7, 8) of said belt (3) are comprised of a generally homogenous material; and in that a cross-section through one or both of said belt-portions (7, 8) presents at least one edge-part that is thinner than the central part of said cross-section.

AMENDED SHEET



- 6. A garment according to any one of the preceding claims, characterised in that at least one edge-part of the belt (3) has been treated so as to change the stiffness of the material locally.
- 7. A garment according to claim 6, characterised in that the edge-part of said belt (3) has been heat-treated.
- 7. A garment according to claim 6, characterised in that the 10 edge-part of said belt (3) has been treated with electromagnetic radiation.
 - 8. A garment according to claim 6, characterised in that the edge-part of said belt (3) has been worked mechanically.

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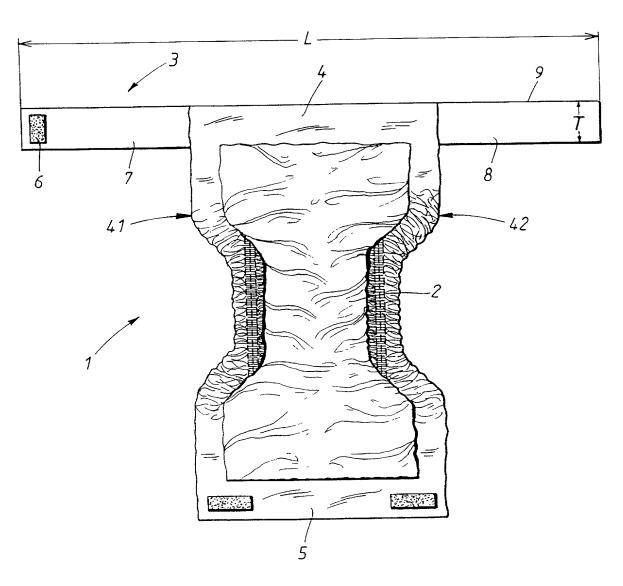


FIG.1

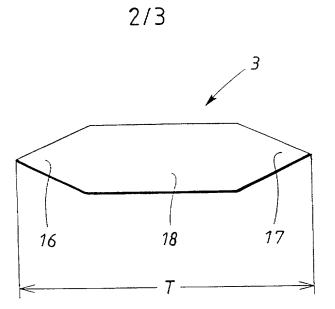
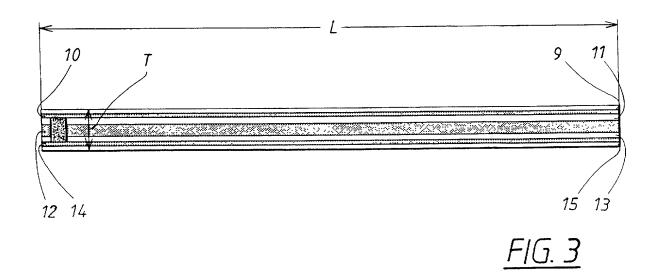
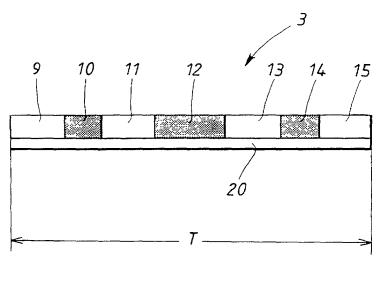


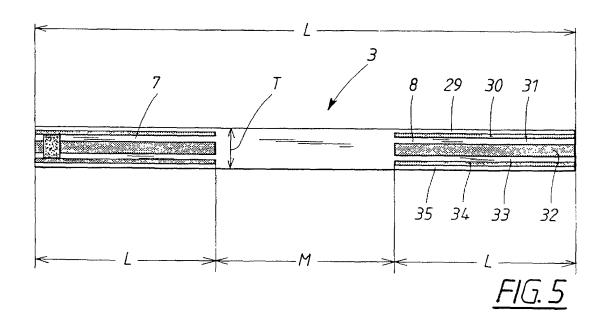
FIG. 2



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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (Includes Reference to Provisional and PCT International Applications)

ATTORNEY'S DOCKET NUMBER

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As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: A WAIST BELT FOR ABSORBENT GARMENTS									
the s	the specification of which (check only one item below):								
	is attached hereto.								
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I hereby claim foreign priority benefits under Title 35, United States Code, §§ 119 (a)-(e) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:									
PRIOR FOR	REIGN/PCT APPI	LICATION(S) AND ANY PRIOR	ITY CLAIMS UNDER 35 U.S.C	. § 119:					
	UNTRY ndicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119					
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I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.									
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COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONTINUED) (Includes Reference to Provisional and PCT International Applications)

ATTORNEY'S DOCKET NO. 000500-252

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States applications(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to the patentability as defined in Title 37, Code of Federal Regulations § 1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

prior application(s) and the nation	onal or PCT in	ternational filing	date of this application	n:				
PRIOR U.S. APPLICATIONS OR PCT	INTERNATIONA	L APPLICATIONS	DESIGNATING THE U.S.	FOR BENE	IT UNDER 3	5 U.S.C. § 12	20:	
U.S. APPLICATIONS					STATUS (check one)			
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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.								